

RESONANCE FREQUENCY SHIFT CANCELING IN WIRELESS HEARING AIDS

Abstract of the Disclosure

5 Systems, devices and methods are provided to switch between transmit and
receive modes in wireless hearing aids. Various aspects of the present subject
matter relate to a communication system. Various embodiments of the
communication system include an antenna with a resonant circuit having an
inductive coil connected to a tuning capacitor. The communication system includes
10 means to selectively drive the resonant circuit during a transmit mode, and means to
selectively receive an induced signal in the resonant circuit during a receive mode.
The communication system further includes means to selectively include a
frequency shift canceling component in the resonant circuit to provide a first
resonance frequency in the resonant circuit in the transmit mode and a second
15 resonance frequency in the resonant circuit in the receive mode such that the first
resonance frequency and the second resonance frequency are approximately equal.
Other aspects are provided herein.

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